



# OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

July 1994 Issue

## The Prez Sez - Bill Merwin N7VZF

Welcome to July. This is the month that we celebrate the birthday of our great nation. It is the time for picnics, parties, family get-togethers and all forms of outdoor activities. Through it all, the keyword should be SAFETY!!!! Please stay safe. I have just started getting to know some of you and I would hate to lose any of you due to a careless moment.



So what else is there to talk about this month.... PLENTY How about SEA-PAC? How about Field Day? How about the election of a new Vice-President? Well, I think those are enough topics to address in one column.

SEA-PAC was a great happening. If you missed it, you missed a lot. There was something for everybody. There were flea market vendors who's tables were filled to overflowing with all types of bargains and unrealized treasures just ready for the picking. Just ask Dee Lynch about the bundle of coax jumpers he stole...er purchased for next to nothing. All in all, the convention was a success but it wouldn't have been possible without the help and dedication of people like Linda and Frank - KB7OMA / KB7OMB from HoodView and their whole team of security personnel. Let's not forget the move-in crew too numerous to name. Maybe Neil will write an article and name them all. The Flea Market crew did an excellent job including losing their chairperson (Bill - N7RYQ) who suffered a heart attack just 2 weeks before the event. All the committee chairpersons (with the exception of the ones I headed) did a superb job, in keeping with the reputation that OTVARC has generated over the last 12 years. Thanks to all who helped make it the success it was.

Next - It is official, as of the closing date -

June 20th, Betty Mickley - N7REX is the new Vice President, and will serve out the term of office for 1994. Thanks to all who took the time to vote and return the ballots to me. Betty's first official activity will be to preside over the July Board of Director's meeting on July 6th. I will be in Seaside that week so Betty has it. That reminds me. All members of OTVARC are invited to attend our board meetings. They are held the first Wednesday of the month at 7:00PM and are held at the Beaverton Mobilodge Community Room - 14385 SW Jenkins Road, Beaverton Oregon. The talk-in frequency is 146.90. You can call any of the board members for directions.

Field Day - Another Field Day has come and gone. Speaking personally, I had a great time. I would like to thank Brad Beach - N7NVC for doing a journeyman's duty with the Novice/Tech station. If it hadn't been for Brad, it would have been another very long 24 hours for me. Brad helped immensely logging contacts, making contacts and making sure the antenna and equipment was working to peak efficiency. I didn't realize though that listening to Radio Moscow and Radio Australia was an established form of checking for propagation but he seemed to enjoy the music in the early morning hours so I guess it had a purpose..... Besides, it was his radio as mine had

*The Prez - Continued on Page 2*

### Inside this Issue

- § Who's our guest speaker for July?
- § Post-Elmering Needed
- § Jackets / Patches / Badges Revisted
- § News From All Over
- § Summer Potluck & Bunny Hunt

developed a strange malady that only seemed to hinder any CW. Of course, that was only discovered once that 10m SSB had ceased to exist for the night and I tried to work CW on 15 and 40m. Fortunately, he had his available and got us back on the air in a short period of time. The weather cooperated for the most part until the early morning hours, Sunday, when I decided to take a short nap, only to be awakened by the soft tap of rain on my tent, my tool box, my hat, my battery and my VHF antenna analyzer. A quick trip out in the elements managed to prevent serious damage to any of the equipment but my poor hat still looks a little waterlogged. I really didn't bother to count the number of people who attended but all who did seemed to have a good time. Thanks Carl - WS7L and YL for a good job keeping us all supplied with the basic "Junque Food" Food groups. Plenty of pastries, cookies, popcorn and coffee. Just the perfect thing to keep the congnative juices flowing.... I am sure that you will be reading an article about the 1994 Field Day escapade in upcoming issues.

Well, that is about it for me this month. Remember, amateur radio is for everyone. Young, Old, Middle-aged. Promote amateur radio. Let the rest of the world know what they are missing. Get involved and get informed.

Until next time, Seven Three to all -

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### **PARC sponsors Potluck Picnic and Bunny Hunt**

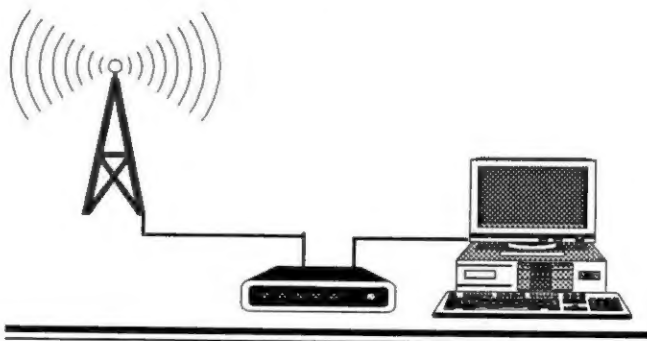
July 9th, 1994 is the date set for the First Annual Metropolitan Area Amateur Potluck, Picnic and Bunny Hunt. Bring something to eat and something to share. It will be held at the Group Picnic Area "C" at Washington Park. The Picnic starts at noon and the Bunny Hunt starts at 2 with 2 bunnies - 1 for beginners and 1 for more advanced hunters. Any questions, call Hugh Ellsworth, KB7LJV at 653-1993. Sounds like it should be fun and a chance to meet other amateurs from around the metropolitan area.

## **This Month's Speaker**

This month's main guest speaker will be Ken Gies, K7IQI who runs the CEDAR/CDRMB Node/BBS in the Cedar Mills area. Ken is an active member of O.P.E.N. which is the Oregon Packet Experimentor's Network. OPEN is a leading force in the field of packet operations and Ken is frequently sought after for his expertise. Ken will possibly be joined by one or more of the other Node/BBS operators in the area. I say possibly due to the fact that the OPEN meeting is the same night as our regular membership meeting. Ken will be presenting an overview of how packet works in regards to routing, traffic handling, file transfers, etcetera. He will also be covering the workings of OPEN and what is being done in the local area as well as the Northwest to further the technology as it applies to packet.

We are fortunate to have Ken available to us as he is a strong resource when it comes to packet. I hope you all have a chance to attend. The meeting night is the same - 2nd Wednesday of the month and the place is still the Beaverton Elks Lodge, 104th and Canyon Road.

I hope to have a good showing at the next meeting. Let's support our club. It is through our involvement that the club grows stronger. See you all there - July 13th, 1994. Dinner starts at 6:00 PM and the meeting starts at 7:00 PM



## News From All Over

Reprinted from Various Publications

### Post-Elmering

By George Wilson, W1OLP

*Reprinted from ARRL Field Forum - April 1994 Edition*

The amateur community does a pretty good job of teaching newcomers and helping them get licenses. True, license examinations are not what they used to be. Most of my contemporaries were driven to get the General Class licenses (the lowest grade in those days) and went on the air immediately when their licenses arrived. In fact, some of us had tasted the fun by doing a little bootlegging (getting on the air without a license) or operating a friend's station before the license arrived. Bootlegging was very limited, however: Those were the days when hams would turn in their own mothers for transgressing the Part 97 rules.

Today, on the other hand, many of our new licensees are slow to get on the air, and some never do! Young people's programs given in schools have a particularly poor yield of active amateurs. This is understandable because of the lack of parental involvement and, perhaps more importantly, the cost of equipment. Parents are all too aware of the limited interest span of their offspring.

Adults are another case entirely. Equipment cost is not generally a problem. This is particularly true if they are members of a club where second-hand equipment is often readily available. Their particular problem seems to be their lack of hands-on experience. In the days before single sideband (SSB), most of us built much of our equipment, and antennas were simple wire affairs that were erected long before our licenses were issued. Today's newcomers are on a rapid learning curve with very little exposure to what it takes to get on the air and how to operate an amateur station. They are afraid of embarrassing themselves or, worse yet, inadvertently doing something illegal.

Many of us remember establishing the VHF band limits (Typically the 5 and 2½ meter bands) using Lecher wires - a most inaccurate method by today's standards. Locally, the band edges were

marked by where you heard the highest and lowest frequency signals. Today, our equipment allows precise frequency control, and with one of the many band allocation charts available, even the beginner need have little fear of Out-Of-Band operation. However, this very precision can be very intimidating.

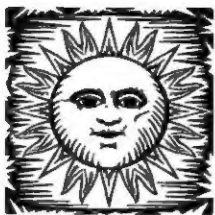
It appears that we amateurs are dropping the ball when the newcomer gets his or her license. Our helper/Elmers are doing the job quite well, but there is a definite need for "Post-Elmers" - those who help get a newcomer comfortably on the air.

The Barnstable Amateur Radio Club (BARC) has pioneered a post-Elmering activity under the guidance of club president Jim Kessler, KQ3S. He recently contacted 20 newly-licensed amateurs and invited them to a meeting prior to the scheduled November meeting, and more than 15 attended. As follow-up to this initial meeting, many Cape Cod amateurs have volunteered to be Post-Elmers. They visit with newcomers and help them to decide what to purchase for equipment, instruct them in the use of the equipment, and help in installing the equipment and the associated antennas and grounding systems. These are all formidable steps for a newcomer acting alone.

Perhaps most importantly, Post-Elmers get the station on the air, and demonstrate what it will do and how to use it properly. One special trick is to demonstrate what can be done with the privileges offered by the next higher grade of license. In one typical case, a newly fired-up Technician's station was used by his Post-Elmer to make a phone contact with an amateur in Texas. The owner of the station was duly impressed, and hopefully, this will stimulate an upgrade.

The Post-Elmering approach used by BARC is strongly recommended to other clubs. We are pleasantly surprised at how many of our members are ready and willing to help out the newcomers.





## Solar Cycle 23 May Begin in Early 1996

By Emil Pocock, W3EP

Propagation has an effect on all of our DXing activities. Ten-meter aficionados will have observed that openings on that band have been few and far between for the last year, and have been limited in the areas where the openings occur. As we wind down through the bottom of Cycle 22, Emil Pocock, W3EP, conductor of QST's The World Above 50 MHz column, has some thoughts about the end of this cycle and the beginning of the next.

The latest forecasts from the National Oceanic and Atmospheric Administration / Space Environmental Services Center (NOAA/SESC) suggest that current Solar Cycle 22 may reach its minimum as early as the second half of 1995. This is good news for high-band DXers, because it means that 10 meters may again come alive for many hours of daily world-wide DX as early as the winter of 1997-98. Six-meter DXers may have to wait only until November or December 1998 for the elusive F-Layer skip to return in full force.

These new predictions push the beginning of Cycle 23 at least a year earlier than NOAA/SESC has been forecasting in early March 1994. Previous forecasts were based on an average solar-cycle of 11 years, but that figure covers several centuries of solar observations. Solar-cycle lengths vary considerably. Recent cycles have tended to fall into two groups, one with a mean duration of 10.2 years and another with a mean of 11.8 years. The profile of Solar Cycle 22 suggests that it will fall into the former group, as did Cycle 21.

The new forecast was made by superimposing the monthly mean sunspot number (One of the measures of solar activity) of the as-yet-incomplete Cycle 22 on top of the numbers for Cycle 21. The correspondence looks good. If Cycle 22 continues in its current trends, it could be expected to reach a minimum as early as the second half of 1995. This would give it a duration of just under 10 years -- a somewhat shorter-than-average cycle, even within

the short-cycle group.

An entirely different method places the end of the current cycle about six months later, during the first half of 1996. This prediction would still make Cycle 22 shorter than 11 years. If these latest forecasts hold up, the peak of Solar Cycle 23 could come as early as 1999. Predictions of the smoothed sunspot numbers at the peak vary considerably, but even the highest figures place it somewhat lower than the peak for Cycle 22. That's still good enough for worldwide DX, even at 50 Mhz.

If these latest forecasts hold up, high-band and VHF DXers could be looking forward to several years of exceptional conditions sooner than previously thought. Conditions should improve markedly beginning as early as the fall of 1997 and continue at least through 2002. This picture of future propagation possibilities will become clearer as we approach the solar cycle minimum. Stay Tuned.



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## Vanity plan replies

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The ARRL has filed reply comments in the FCC's proposal to institute a "vanity" call sign program (in PR Docket 93-305). The League said that the vast majority of the 109 comments filed on the proposal favored it, in general, with the major concerns being how to fairly administer it. There were fewer than five comments opposing the proposal and, while they made what the League called "thoughtful and important points," they did not seem to represent more than a small minority opinion.

The ARRL in its reply comments said that the issue of cost already had been settled, in that amateurs themselves would pay for the privilege of selecting a call sign.

Regarding Silent Key call signs, the League said that by giving family members and clubs the first opportunity to apply for such call signs, "well known and respected" amateurs' call signs could be preserved.

*See Vanity - Page 5*

The League said that a proposal by Frederick O. Maia, W5YI, to establish a "Vanity Call Sign Administration" program in the private sector, was not only not permitted within FCC's mandate from Congress, but would be cumbersome and bureaucratic, while adding no value for the applicant.

The League urged the Commission to proceed with a Report and Order on the "vanity" call sign proposal, incorporating the minor modifications suggested in the earlier ARRL comments.

## YOUNG HAM OF THE YEAR 1994

Sometimes its a lot of little things in life that really pay off. If you don't believe us just ask Allison Zettwoch, KD4CKP of Louisville, Kentucky. On Thursday May 12th, -- on her fifteenth birthday -- Allison found out that she had been selected to receive the 1994 Westlink Report Young Ham of the Year Award. Newline was listening in when Allison found out the news.

"Let's say I said to you right now, and really meant it, congratulations, Happy Birthday and you ARE the Young Ham of the Year, how would you feel?" Westlink.

"I would be very excited." Allison

"Well you better be excited, congratulations you're the winner!" Westlink.

"Are you serious?" Allison

"I'm as serious as I can be. Congratulations Allison, you are the 1994 WestLink Report Young Ham of the Year." Westlink.

"Thank you!" Allison

Allison Zettwoch was chosen as 1994 Young Ham of the Year because of a lot of little things. She took it upon herself to become a ham after reading about the hobby in a youth magazine. Then she took out after her parents, and in short order her father Larry -- a 757 pilot for US Air was sporting the call sign KR4IF and her mother

Daneen became known as KD4FNO. Only her younger brother Evan is still not hooked and Allison says she is working on him.

But Allison's recruiting efforts go well past family ties. She is credited with being the inspiration that lead to the licensing of the Zettwoch's closest friends. Their becoming hams has truly made this a multi family affair.

"There's another family here we do, that we work with, that are best friends, there's like three hams in the family. We may be on different sides of town, but we coordinate to pick up each others kids and things like that. I mean it's very useful device there, not just, you know for friends type talking, but if I'm on this side of town I'll pick up your kid if you'll pick mine up over there. Sometimes it's three o'clock you'll hear the Metcalfs and the Zettwochs coordinating who is picking up who and will you feed the dog today because we didn't make it home." Larry Zettwoch explains.

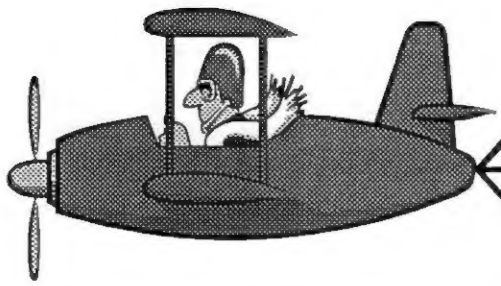
According to John Embry, KR4RL who nominated her, Allison continues to be a motivating force among the young people in ham radio in and around the Louisville area. Embry says that two of the youngsters that she recruited into the hobby have become true ham radio leaders in their own right. One of them, Shannon Metcalf, KD4RER, is already serving on the board of Directors of a major Amateur Radio club.

Embry also says that Allison continues her activities of recruiting young scouts into the ranks of ham radio. At the recent South Louisville Community Festival, she actively discussed ham radio with every person with ventured by the station and display.

"We live in the south end of our city. And we have different groups like we have the Corvette Club come and we had the police there with the talking police car and everything. I set up an amateur radio station to demonstrate to the community what amateur radio is." Allison

"Whose idea was it?" Westlink.

*Young Ham - Continued on Page 9*



## *Stuff for Sale or Trade*

1. **Laptop Computer. Toshiba T3100.** \$120.00  
286 processor, 720K Floppy drive. No Hard Drive. Perfect for Packet. Complete with carrying case and manuals.
2. **Desktop Computer - IBM PC Portable** \$75.00  
2-360K Floppy Drives. No Hard Drive. Another perfect Packet MS DOS based machine.
3. **HF Station - Heath HW101** \$100.00  
110 Volt Power Supply, 12VDC Power Supply. Receiver OK, Transmitter Dead Matching Speaker
4. **HF AMP 450 Watts out. Very Clean Custom Built** \$150.00
5. **AF Generator - HP Model 233A** \$50.00  
500Hz to 50,000Hz (50KHz). High Precision, Lab type instrument.
6. **RF Generator Knight KG-650** \$25.00
7. **O'Scope - TEK Model 545** \$175.00  
Refurbished by Stanly Ham himself. Complete with 2 probes, manuals & Stan's Book on TEK Scopes.
8. **SWR Analyzer. MFJ Model 207** \$50.00  
HF Bands, nearly new.
9. **Printer Sharing Device** \$20.00  
Parallel Printer Sharing Device. Connect up to 4 computers to one printer. Automatically switches between inputs.

If you are interested in any or all of the above equipment, contact **Alan Churchill - AA7CV**  
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Last month, I wrote a column about the various nets that meet and why. At the meeting, I asked who knew information about the various ARES nets and frequencies. It seems that there are a fair amount of people, who have 2m capabilities who are unsure of the information concerning time, place and frequencies of their local nets. The following should help. Hope to catch you on one or more of the nets listed.

District 1 ARES	7:30 PM	147.32	Daily
District 1 Emergency Net		147.32	Activated during large area emergencies and to facilitate traffic between county ARES emergency Nets.
Clackamas County ARES	7:00 PM	145.21	Sunday
Clatsop County ARES	7:00 PM	146.66	Wednesday
Columbia County ARES	** Not net currently scheduled		
Multnomah County ARES			
PARC	7:00 PM	146.84	Monday
HoodView	7:30 PM	147.28	Wednesday
Tillamook County ARES	7:00 PM	147.22	Thursday
Washington County ARES	7:00 PM	146.90	Every Tuesday except 2nd Tuesday which is meeting night.
Yamhill County ARES	7:15 PM	146.64	Thursday

## Jackets / Patches / Badges

I mentioned in last month's issue that Terry Sparks - AA7ZO had taken over the badge concession. I just received an update on what is now available. Terry has made contact with several vendors in the area that are interested in supplying the club with all sorts of paraphernalia. The club name badges will continue to be \$4.00. Some of the new items include: Club Hats, Club Jackets, Club T-Shirts, Tank-Tops, Baseball Shirts and Hooded Sweatshirts. Any of them can be purchased with the club logo and your name. The following is just a limited portion of the "Catalogue". For more information, feel free to contact Terry - 628-0372 (Home) or packet - AA7ZO @ K7IQI or via his MBX AA7ZO-1. Terry has put in some serious work to arrange this material. Thanks Terry. Here is the partial list:

### Jackets:

All jackets are red in color, and come with O.T.V.A.R.C. club logo on the back, with name and callsign on the left front (your choice of embroidered patch or silkscreen). Add \$10.50 to the price of the garments listed below to cover the printing costs. Sizes from Small to XL. Youth sizes \$1.00 less; XXL add \$2.00, XXXL add \$5.00, Tall sizes add \$5.00.

Nylon shell (Windbreaker), unlined with elastic cuffs	\$20.00
Same as above, but lined:	\$25.00
Nylon Windbreaker (Oxford finish, knit cuffs)	\$30.00

Other Jackets available, please call for quotes.

### Caps

Mesh Back	\$5.00
Poplin Golf Cap	\$8.00

## The Following is a list of the County / Club Emergency Net Frequencies.

### Club - Agency Frequency Listing

Group / Agency	Frequency	Type <sup>1</sup>	Notes
Clackamas County (CARES)	147.21(+)	R	
Clackamas County (CARES)	146.94(-)	R	
Clark County ARES	147.24(+)	R	
Clark County ARES Simplex	147.50	S	
Clatsop County ARES	146.66(-)	R	(Local Tactical)
Clatsop County ARES	146.76(-)	R	(Wide Area Coord.)
Clatsop County ARES (Simplex)	146.52	S	
Cowlitz County ARES	147.26(+)	R	
Columbia County ARES	145.35(-)	R	
Columbia County ARES Simplex	145.35	S	(use repeater output)
District 1 Emergency Net	147.32(+)	R	
District 1 Net Alternate	147.04(+)	R	
District 1 Net (Secondary)	146.48(-)	R	
Hoodview (Multnomah County)	147.28(+)	R	
Hoodview Simplex	147.48	S	
OTVARC (Washington County)	146.90(-)	R	
OTVARC Simplex	147.42	S	
OTVARC UHF	440.35(+)	R	(Tone 127.9)
PARC (Multnomah County)	146.84(-)	R	
PARC Simplex	145.73	S	
TERAC Operational	146.58	S	
Tillamook County ARES	147.22(+)	R	
Washington County ARES	146.90(-)	R	
Washington County Simplex	147.40	S	
Yamhill County ARES	146.64(-)	R	
Yamhill County ARES Simplex	146.43	S	

Check in on the frequency listed for your organization first. If you are not able to reach the net on the frequency listed, check with the D1 net on 147.32 if activated.

<sup>1</sup>Note: Type - R = Repeater / S = Simplex



"Mine!" Allison

In addition to all of this, Allison still manages to maintain a remarkable 4.0 grade point average. She is already taking ground school instruction in anticipation of getting a private pilot's license as soon as she turns 16.

KD4CKP says that she loves scuba diving and will be going to China this coming summer as a part of a special school sponsored event. And least we forget, Allison has just assumed the duty of Editor of Watts New, the official newsletter of the Amateur Radio Transmitting Society of Louisville. She says that she does all of the ham radio volunteer work because:

"I enjoy helping people get into the hobby." Allison

Allison received her award the evening of Saturday, June the 4th at the Sea Pac convention banquet in Seaside, Oregon. On hand to make the presentation was Westlink Report Editor - Publisher Burt Hicks, WB6MQV, Yaesu USA's Kevin Karamanos, WD6DIH and Newsline Producer Bill Pasternak, WA6ITF. It was Pasternak who created the Westlink Report Young Ham of the Year Award program back in 1986. Yaesu USA has served as corporate underwriter ever since.

It's



NOT



"They have little Bobby and they want eight dollars - what do you think?"

### SKAMOKAWA RV PARK

JULY 15-16-17

On the Washington side of the Columbia River. Right on the banks of the river. No hook-ups!! Tennis courts, kites, Frisbees or what have you. A lot of room for whatever you like to do. Watch the ships pass by. For further info and reservations call Roger, KA7RNN or Marvel, KA7TZT at 292-3261.

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## BEGINNER'S CORNER

**DISCLAIMER:** Do not follow any suggestions contained herein or hereafter unless you are willing and able to be responsible for the cost of any damage that may be caused. I am a certified amateur and not a professional, therefore I am not liable for giving bad advice. All I will claim is that the experiments described worked for me on my equipment. The positive outcome may have been due to good luck alone. But then I have always thought it is better to be lucky than good.

Having purchased a two meter handy talky, so far my first and only radio, and having quickly determined that the rubber ducky antenna it came with was virtually worthless in terms of DX and having solved that problem by building a better (bigger and heavier) antenna without spending mega-bucks, my attention has turned to the puny little speaker the HT contains.

I have noticed that when I turn the volume up so I can hear what is being said the speaker is operating in the "blah" region. (I'm not sensitive about hearing loss, I just think it looks undignified to walk around holding the HT plastered against the side of my head. You young whipper snappers can laugh now but your day is coming too.)

One can appreciate the constraint of size and weight when you have to lug something (or many somethings) around for any time at all. Those of you that have carried a forty pound field pack on a twenty mile stroll know what I am talking about. So perhaps when out in the field one can do without high fidelity sound across the audio spectrum and can do without the ability to level buildings using volume control. But in the privacy of your home it is a different story.

There is an old saying about not being able to create a silk purse out of a sow's ear and it applies to the handy talky. The frequency range allocated to each "channel" is restricted to the point that the HT will never sound great but it can sound a great deal better and louder.

Usually this problem can be solved by attaching the radio to a bigger speaker or a set of speakers (woofers, squawkers, tweeters) that are tuned to the frequencies you want to hear.

Unfortunately the HT doesn't have enough power "out" to push a bigger speaker. (If it did then you would also have to carry a bigger battery.) We need an audio amplifier that plugs into house power. Then we can boost the power out to a level that will move the bigger speakers. Now when you want more volume and better frequency response you can plug your HT into the audio amp and blow out the windows if you so desire.

Those of you that have more money than time can just run down to Portland Radio or over to HRO and buy what you need. My Scottish ancestry will not allow me to do so if there is a cheaper way to solve the problem.

Already in the house is a home entertainment system, a TV and stereo system that will play AM-FM radio, a tape deck, a phonograph, and a CD player. All this stuff is fed into a power amplifier that drives a bunch of different sized speakers. All I need do is plug the handy talky in at the appropriate place.

Without getting too technical. (All levels of amateur license should appreciate the difference between volts and micro-volts. If not, well, the first time you plug volts in where micro-volts are expected may be illuminating.) you should realize that a signal "out" may not be compatible to a signal "in". (One thing's "out" is another thing's "in".) For example, a jack labeled "EXT SPKR" (an "out") will pass a signal that has already been through a power amplifier.

Since "In" signals directed to a power amplifier are expected to be at line strength (signal level before power amplification) the "EXT SPKR" is not a compatible "in" for a power amplifier. I use the earphone jack for my "out" signal. It is close enough to line strength to be used as an "in" signal.

A trip to Radio Shack may be necessary to get a splitter cable that has an appropriate sized plug on one end to fit into the earphone jack of your radio and splits into two RCA receptacles. (I am plugging into a stereo system and using both channels.

The split is not necessary but keeps me from having to decide which stereo channel to use.) Also pick up a piece of stereo RCA cable that is long enough to get you a comfortable distance away from what you are plugging into because the splitter is only about a foot long.

Look on the back side of the box that you are plugging into (TV, Stereo, Whatever) for a jack that says "Audio In", if no such label is found use: "AUX TAPE", or "CD". DO NOT USE ANYTHING THAT SAYS PHONO. Phonograph signals are micro-volt sized and are not compatible with "Audio In" for our purposes.

One last caution. Before you power on, set the volume knobs at the lowest possible setting. ("Knobs" is correct because there is one on your radio and one on the TV, Stereo, Whatever.) It is easier on your nerves and pocketbook to bring the volume up to an appropriate setting rather than down to an appropriate setting, trust me.

One more last caution. Your speakers may behave differently with a squelch controlled radio. Usually speakers do not have a chance to "rest" under ordinary use, but with squelch control they do. You might find the sudden "speaker activations" a little distracting.

Enjoy. Larry, KB7ULU

## BORSCH ELECTRONICS

Communications Servicing

9935 S.W. Johnson St.  
Tigard, OR. 97223

Joe Borsch W7PHS

(503) 884-5201

## OTVARC Club Contacts

### OTVARC Executive Board

President	Bill Merwin	N7VZF	644-1974
Vice President	Betty Mickley	N7REX	642-1284
Secretary	Brad Beach	N7NVC	657-1781
Treasurer	Tim Taylor	N7UCA	292-5430
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Rick Rasch	KB7NTT	641-7419
Trustee	Camber Bybee	KB7RGX	645-6840
Trustee	Lynn Hurd	WB7UNU	649-9152
Trustee	Wes Allen	K7WWG	649-3295

### Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	Tim Taylor	N7UCA	292-5430
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	OPEN		
Member Badges	Terry Sparks	AA7ZO	628-0372
Newsletter Editor	Les Turner	KB7SSE	640-8873
Newsletter Layout	Doug Reeves	N6XHW	883-8504
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nomination of Officers	Alan Roehl	KO7B	292-5243
Project Night	OPEN		
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Red Robert	AA7CP	357-5747
Scholarship	OPEN		
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Bill Merwin	N7VZF	644-1974
Technical	OPEN		
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VE Testing	Alan Roehl	KO7B	292-5243
VE Test Schedule	OPEN		
VHF/UHF	Bill Roth	N7RYW	297-7605

## OTVARC Club Information

**Purpose:** The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

**Special Service Club** OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

**Newsletter:** The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

**Correspondence:** All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

**Advertising:** Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

**Meetings:** We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

**Membership** OTVARC is open to anyone who breathes. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

**How To Join:** Simply mail the Member Application and Renewal Form along with your dues to the address above.

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